Ren-Jie Chang

List of Publications by Year
in descending order

15 papers	505 citations	623188 14 h-index	996533 15 g-index
15 all docs	15 docs citations	15 times ranked	986 citing authors

#	Article	IF	Citations
1	High Photoresponsivity in Ultrathin 2D Lateral Graphene:WS₂:Graphene Photodetectors Using Direct CVD Growth. ACS Applied Materials & Interfaces, 2019, 11, 6421-6430.	4.0	78
2	Growth of Large Single-Crystalline Monolayer Hexagonal Boron Nitride by Oxide-Assisted Chemical Vapor Deposition. Chemistry of Materials, 2017, 29, 6252-6260.	3.2	60
3	High-Performance WS₂ Monolayer Light-Emitting Tunneling Devices Using 2D Materials Grown by Chemical Vapor Deposition. ACS Nano, 2019, 13, 4530-4537.	7.3	56
4	Controlling Defects in Continuous 2D GaS Films for Highâ€Performance Wavelengthâ€Tunable UVâ€Discriminating Photodetectors. Advanced Materials, 2020, 32, e1906958.	11.1	53
5	Chemical Vapor Deposition Growth of Two-Dimensional Monolayer Gallium Sulfide Crystals Using Hydrogen Reduction of Ga₂S₃. ACS Omega, 2018, 3, 7897-7903.	1.6	35
6	High-Performance All 2D-Layered Tin Disulfide: Graphene Photodetecting Transistors with Thickness-Controlled Interface Dynamics. ACS Applied Materials & Interfaces, 2018, 10, 13002-13010.	4.0	32
7	High-Performance Two-Dimensional Schottky Diodes Utilizing Chemical Vapour Deposition-Grown Grapheneâ€“MoS₂ Heterojunctions. ACS Applied Materials & Interfaces, 2018, 10, 37258-37266.	4.0	30
8	Ultrathin All-2D Lateral Graphene/GaS/Graphene UV Photodetectors by Direct CVD Growth. ACS Applied Materials & Interfaces, 2019, 11, 48172-48178.	4.0	30
9	Self-Limiting Growth of High-Quality 2D Monolayer MoS₂ by Direct Sulfurization Using Precursor-Soluble Substrates for Advanced Field-Effect Transistors and Photodetectors. ACS Applied Nano Materials, 2019, 2, 369-378.	2.4	27
10	Postgrowth Substitutional Tin Doping of 2D WS₂ Crystals Using Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2019, 11, 24279-24288.	4.0	24
11	2D-Layer-Dependent Behavior in Lateral Au/WS₂/Graphene Photodiode Devices with Optical Modulation of Schottky Barriers. ACS Applied Nano Materials, 2018, 1, 6874-6881.	2.4	22
12	Morphology Control of Two-Dimensional Tin Disulfide on Transition Metal Dichalcogenides Using Chemical Vapor Deposition for Nanoelectronic Applications. ACS Applied Nano Materials, 2019, 2, 4222-4231.	2.4	21
13	GaS:WS₂ Heterojunctions for Ultrathin Two-Dimensional Photodetectors with Large Linear Dynamic Range across Broad Wavelengths. ACS Nano, 2021, 15, 19570-19580.	7.3	20
14	Effects of surface oxidation of Cu substrates on the growth kinetics of graphene by chemical vapor deposition. Nanoscale, 2017, 9, 2324-2329.	2.8	14
15	Atomic structural catalogue of defects and vertical stacking in 2H/3R mixed polytype multilayer WS₂ pyramids. Nanoscale, 2019, 11, 10859-10871.	2.8	3